

1753

In re Application of:

Zheng, et al.

Serial No.: 09/614,407

Confirmation No.: 1903

Filed: July 12, 2000

**For: Method of Application of  
Electrical Biasing To  
Enhance Metal Deposition**

2020年12月25日

Group Art Unit: 1753

**Examiner:** Brian L. Mutschler

**MAIL STOP**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

## 37 CFR 1.8

I hereby certify that this correspondence is being deposited on April 29, 2004 with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

Date 4/29/2024

Robert Edwards  
Signature

Dear Sir:

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

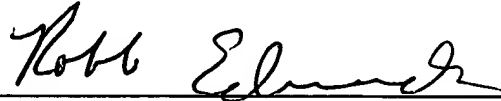
While the information submitted in this Supplemental Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. AMAT/4471.Y1/KMT.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Robb D. Edmonds", is written over a horizontal line.

Robb D. Edmonds

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Attorney for Applicant(s)

Substitute for form 1449A/PTO

**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

5

Application Number

09/614,407

Filing Date

July 12, 2002

First Named Inventor

Zheng, et al

Group Art Unit

1753

Examiner Name

Mutschler

Attorney Docket Number

AMAT/4471.Y1/CMP/ECP/4KK

Submission Date

April 29, 2004

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A1	US-2,742,413	04/17/1956	Cransberg, et al.	
	A2	US-2,882,209	04/14/1959	Brown	
	A3	US-3,627,661	02/13/1969	Gordon, et al.	
	A4	US-3,649,509	03/14/1972	Morawetz, et al.	
	A5	US-3,727,620	04/17/1973	Orr	
	A6	US-4,027,686	06/07/1977	Shortes, et al.	
	A7	US-4,065,374	12/27/1977	Asami, et al.	
	A8	US-4,092,176	05/30/1978	Kozai, et al.	
	A9	US-4,110,176	08/29/1978	Creutz, et al.	
	A10	US-4,113,492	09/12/1978	Sato, et al.	
	A11	US-4,120,759	10/17/1978	Asami, et al.	
	A12	US-4,129,480	12/12/1978	Robert	
	A13	US-4,326,940	04/27/1982	Eckles, et al.	
	A14	US-4,336,114	06/22/1982	Mayer, et al.	
	A15	US-4,376,685	03/15/1983	Watson	
	A16	US-4,405,416	09/20/1983	Raistrick, et al.	
	A17	US-4,428,815	01/31/1984	Powell, et al.	
	A18	US-4,489,740	12/25/1984	Rattan, et al.	
	A19	US-4,518,678	05/21/1985	Allen	
	A20	US-4,519,846	05/28/1985	Aigo	
	A21	US-4,693,805	09/15/1997	Quazi	
	A22	US-4,732,785	03/22/1988	Breser	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B1	99/54527 A2	10/28/1999	WO		
	B2	99/26275	05/27/1999	WO		

Examiner

Date Considered

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Substitute for form 1449A/PTO		Application Number	09/614,407
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		Filing Date	July 12, 2002
		First Named Inventor	Zheng, et al
		Group Art Unit	1753
		Examiner Name	Mutschler
		Attorney Docket Number	AMAT/4471.Y1/CMP/ECP/4KK
Sheet 2	5	Submission Date	April 29, 2004

## U.S. PATENT DOCUMENTS

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		Number-Kind Code <sup>2</sup> (if known)			
	A23	US-4,789,445	12/06/1988	Goffman, et al.	
	A24	US-4,869,971	09-26-1989	Nee, et al.	
	A25	US-5,055,425	10/08/1991	Leibovitz, et al.	
	A26	US-5,092,975	03/03/1992	Yamamura, et al.	
	A27	US-5,155,336	10/13/1992	Gronet, et al.	
	A28	US-5,162,260	11/10/1992	Leibovitz, et al.	
	A29	US-5,178,813	01/12/1993	Akatsu, et al.	
	A30	US-5,222,310	06/29/1993	Thompson, et al.	
	A31	US-5,224,504	07/06/1993	Thompson, et al.	
	A32	US-5,230,743	07/27/1993	Thompson, et al.	
	A33	US-5,252,807	10/12/1993	Chizinsky	
	A34	US-5,259,407	11/09/1993	Tuchida, et al.	
	A35	US-5,290,361	03/01/1994	Hayashida, et al.	
	A36	US-5,302,256	04/12/1994	Miura, et al.	
	A37	US-5,316,974	05/31/1994	Crank	
	A38	US-5,328,589	07/12/1994	Martin	
	A39	US-5,349,978	09/27/1994	Sago, et al.	
	A40	US-5,368,711	11/29/1994	Poris	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B3	99/25904	05/27/1999	WO		
	B4	99/25903	05/27/1999	WO		
	B5	99/25902	05/27/1999	WO		
	B6	932 709	09/08/1955	DE		

Examiner

Date Considered

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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3

5

Application Number

09/614,407

Filing Date

July 12, 2002

First Named Inventor

Zheng, et al

Group Art Unit

1753

Examiner Name

Mutschler

Attorney Docket Number

AMAT/4471.Y1/CMP/ECP/4KK

Submission Date

April 29, 2004

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		Number-Kind Code <sup>2</sup> (if known)			
	A41	US-5,377,708	01/03/1995	Bergman, et al.	
	A42	US-5,415,890	05/16/1995	Kloiber, et al.	
	A43	US-5,447,615	09/05/1995	Ishida	
	A44	US-5,454,930	10/03/1995	Miura, et al.	
	A45	US-5,516,412	05/14/1996	Andricacos, et al.	
	A46	US-5,528,118	06/18/1996	Lee	
	A47	US-5,608,943	03/11/1997	Konishi, et al.	
	A48	US-5,625,170	04/29/1997	Poris	
	A49	US-5,651,865	07/29/1997	Sellers	
	A50	US-5,670,034	09/23/1997	Lowery	
	A51	US-5,705,223	01/06/1998	Bunkofske	
	A52	US-5,730,890	03/24/1998	Bickford, et al.	
	A53	US-5,838,121	11/17/1998	Fairbairn, et al.	
	A54	US-6,024,856	02/15/2000	Haydu, et al.	
	A55	US-6,071,388	06/06/2000	Uzoh	
	A56	US-6,093,291	06/13/2000	Reid, et al	
	A57	US-6,113,771	07/25/2000	Izumi, et al.	
	A58	US-6,133,061	09/05/2000	Landau, et al.	
	A59	US-6,162,344	12/19/2000	Reid, et al.	
	A60	US-6,174,425	01/16/2001	Simpson, et al.	
	A61	US-6,203,582	03/20/2001	Berner, et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B7	6-17291	01/25/1994	JP		
	B8	520 563 69	09/05/1977	JP		

Examiner

Date Considered

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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

4

5

Application Number

09/614,407

Filing Date

July 12, 2002

First Named Inventor

Zheng, et al

Group Art Unit

1753

Examiner Name

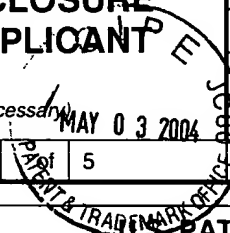
Mutschler

Attorney Docket Number

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		Number-Kind Code <sup>2</sup> (if known)			
	A62	US-6,254,760	07/03/2001	Shen, et al.	
	A63	US-6,261,433	07/17/2001	Landau	
	A64	US-6,261,733	05/08/2001	Kust, et al.	
	A65	US-6,267,853	07/31, 2001	Dordi, et al.	
	A66	US-6,340,633	01/22/2002	Lopatin, et al.	
	A67	US-6,344,419	02/05/2002	Forster, et al.	
	A68	US-6,350,366	02/26/2002	Landau, et al.	
	A69	US-6,391,166	05/21/2002	Wang	
	A70	US-6,395,101	05/28/2002	Scranton, et al.	
	A71	US-6,399,479	06/04/2002	Chen, et al.	
	A72	US-6,423,636	07/2002	Dordi, et al.	
	A73	US-6,432,832	08/13/2002	Miller, et al.	
	A74	US-6,551,484	04/22/2003	Hey, et al.	
	A75	US-6,551,488	04/22/2003	Hey, et al.	
	A76	US-6,565,729	05/20/2003	Chen, et al	
	A77	US-6,632,345	10/14/2003	Chen	
	A78	US-6,638,410	10/28/2003	Chen, et al	
	A79	US-09/614,407		Zheng, et al.	
	A80	US-09/569,833		Gandikota, et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B9	443 108	11/22/1968	SU		
	B10	4-141395	05/06/1994	JP		
	B11	1 160 846	12/05/2001	EP		
	B12	01/90446	11/19/2001	WO		

Examiner

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Substitute for form 1449B/PTO		Application Number	09/614,407
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Filing Date	July 12, 2002
		First Named Inventor	Zheng, et al
		Group Art Unit	1753
		Examiner Name	Mutschler
		Attorney Docket Number	AMAT/4471.Y1/CMP/ECP/4KK
Sheet 5	5	Submission Date	April 29, 2004

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		Olgado, <i>et al.</i> "Stable Cell Platform," filed 09/29/00; USSN 09/676,362	
		Dordi, <i>et al.</i> "Flow Diffuser to be Used in Electro-Chemical Plating System," filed 12/05/00; USSN 09/731,326	
		Olgado, "Linear Motion Apparatus and Associated Method," filed 10/16/00; USSN 09/684,500	
		Dordi, <i>et al.</i> "Method and Associated Apparatus for Tilting a Substrate Upon Entry for Metal Deposition," filed 10/03/00; USSN 09/678,947 (2601.P5)	
		Olgado, <i>et al.</i> "Multiple Blade Robot Adjustment Apparatus and Associated Method," filed 09/18/00; USSN 09/664,607 (2601.P3)	
		Olgado, "Removable Modular Cell for Electro-Chemical Plating," filed 09/15/00; USSN 09/663,814 (2601.P2)	
		Colombo, "Wafer Back Surface Film Removal," Central R&D, SGS-THOMSON Microelectronics, Agate Italy	
		International Search Report for PCT Application US01/15200 dated March 11, 2003. (AMAT/4582.PC)	

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